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We claim:

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1. A process for the production of ferric oxide precipitates having a selected particle size, comprising selecting a combination of a temperature and a seeding ratio, and conducting said process at pressures above atmospheric to obtain ferric oxide precipitates of the selected particle size.

- 2. The process of claim 1 wherein the seeding ratio is the ratio of the weight of seed solid to the weight of expected unseeded precipitate product.
- 10 3. The process of claim 1 wherein the temperature is from about 100°C to about 300°C.
 - 4. The process of claim 1 wherein the temperature is from about 175°C to about 240°C.
 - 5. The process of claim 1 wherein the seeding ratio is from about 20% to about 2000%.
 - 6. The process of claim 1 wherein the seeding ratio is from about 50% to about 500%.
 - 7. The process of claim 1 wherein the selected particle size is from about 0.1 to about 10 microns.
 - 8. The process of claim 1 wherein the selected particle size is from about 0.15 to about 2.5 microns.
- 9. The process of claim 1 wherein the ferric oxide precipitates are obtained in from about one minute to about 6 hours.
 - 10. The process of claim 1 wherein the ferric oxide precipitates are obtained in from about 30 minutes to about 1 hour.
- 30 11. The process of claim 1 wherein said process is conducted at a pressure of from about 10 to about 1300 psig.
 - 12. The process of claim 1 wherein said process is conducted at a pressure of from about 100

to about 500 psig.

13. The process of claim 1 wherein the ferric oxide precipitates are obtained from a feed
solution comprising iron solubilized in one of nitric acid, sulfuric acid, and hydrochloric acid.

14. The process of claim 1 wherein the ferric oxide precipitates are obtained from a feed solution comprising iron solubilized in nitric acid.

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- 15. The process of claim 13 wherein the feed solution has an iron concentration of from about 5 g/L up to the onset of crystallization of the ferric salt.
- 16. The process of claim 13 wherein the feed solution has an iron concentration of from about 10 g/L to about 100 g/L.
 - 17. The process of claim 13 wherein the feed solution has an iron concentration of from about 30 g/L to about 60 g/L.
- 18. The process of claim 13 wherein the feed solution has a free acid concentration of from about 0 g/L to about 150 g/L.
 - 19. The process of claim 13 wherein the feed solution has a free acid concentration of from about 30 g/L to about 70 g/L.

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- 20. The process of claim 1 wherein the ferric oxide precipitates have an L* of about 40 to about 60.
- 21. The process of claim 1 wherein the ferric oxide precipitates have an L* of about 49 to about 55.
 - 22. The process of claim 1 wherein the ferric oxide precipitates have an a* of about 10 to about 40.

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23. The process of claim 1 wherein the ferric oxide precipitates have an a* of about 19 to about 33.

- 24. The process of claim 1 wherein the ferric oxide precipitates have an b* of about 5 to about 35.
- 25. The process of claim 1 wherein the ferric oxide precipitates have an b* of about 12 to about 28.
- 26. The process of claim 1 conducted in a batch or a continuous fashion.

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27. The process of claim 1 wherein the ferric oxide precipitates have a smooth surface texture.